

# OA-Capacity-Building

# Contents

## Articles

SUNScholar/Capacity Building	1
SUNScholar/Capacity Building/Digital Repository Systems Management	2
SUNScholar/Capacity Building/Digital Repository Content Management	5

## References

Article Sources and Contributors	8
Image Sources, Licenses and Contributors	9

## Article Licenses

License	10
---------	----

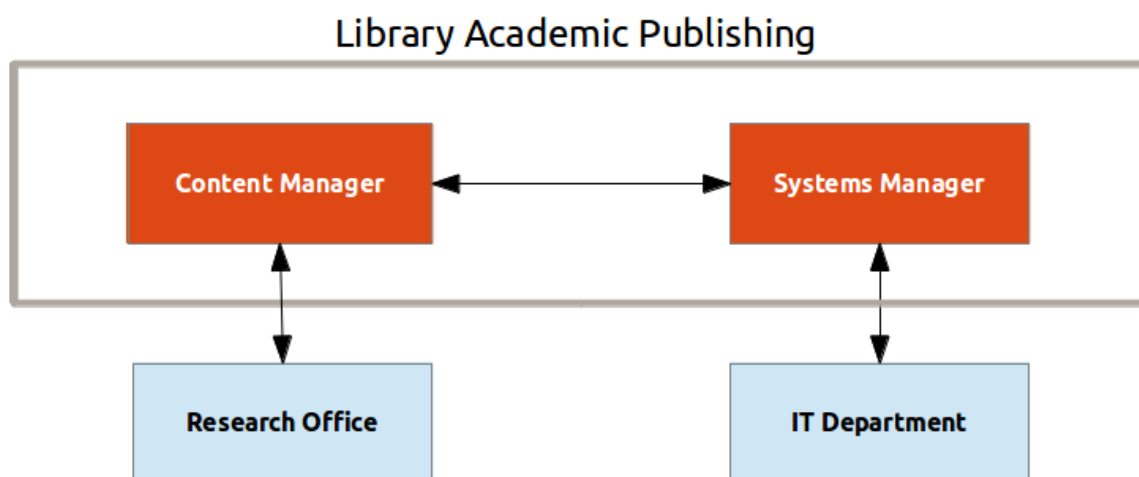
# SUNScholar/Capacity Building

**This wiki page relates to the system build and maintenance of an open access institutional research repository, using open systems for very long term digital security, preservation and interoperability.**

The content on the repository and the technological systems that run the repository need the following persons to manage them.

## Digital Repository Content Management Personnel

*Please note: The diagram below assumes that the academic library is assigned the responsibility for open scholarly communication in support of institutional research and teaching. These same persons, with their skills, are also then capable of enabling other open systems for the institution, for example, an open journal system, an open educational resources system, an open data system, an open bibliography system or an open library management system. See: <http://wiki.lib.sun.ac.za/index.php/OpenCampus>. **Click here** to download a PDF version of this capacity building guide.*



## Library Publishing Links

[http://en.wikipedia.org/wiki/Library\\_publishing](http://en.wikipedia.org/wiki/Library_publishing)

<http://www.librarypublishing.org>

**Back to Guidelines**

**Back to GARP**

# SUNScholar/Capacity Building/Digital Repository Systems Management

---

**DSpace and Ubuntu require expert technical support for long term sustainability.**

**Technology is expanding at ever faster rates, therefore it is wise to find persons experienced in specialised areas to do systems management.**

**Think of any other field that has expanded and become specialised, the same applies to technology and systems management today and definitely in the very near future.**

Persons with the following skills are desirable. They can be hired part-time or employed full-time depending on the amount of resources available to you and the amount of work to be done.

Essential Reading (Only available online)

- 2014 - RHT - SALARY GUIDE
  - 2013 - DICE - LINUX JOBS REPORT
  - 2012 - IAI - SALARY SURVEY
- 

## Example Job Advertisement

The (name of institution) is seeking candidates to fill the positions of java web developer and linux system administrator for the open scholarship office.

The candidates should have at least 2 years experience and optionally supply certification and accreditation where available.

The minimum required skill sets are listed below.

### Web 2.0 Software Technologist or Java Webapp Developer <sup>[1]</sup>

- Expert Java <sup>[2]</sup> programming skills
- Expert XML <sup>[3]</sup> programming skills
- Professional SQL <sup>[4]</sup> programming skills
- Professional HTML <sup>[5]</sup> programming skills
- Professional CSS <sup>[6]</sup> programming skills
- Professional PHP <sup>[7]</sup> programming skills
- Familiarity with the LAMP <sup>[8]</sup> web 2.0 stack
- Familiarity with the Tomcat <sup>[9]</sup> Java webapp server

### Web 2.0 Hardware Technologist or Ubuntu Linux System Administrator <sup>[10]</sup>

- Expert with the Ubuntu <sup>[11]</sup> Linux server operating system
  - Expert with the LAMP <sup>[8]</sup> web 2.0 stack
  - Expert with the Tomcat <sup>[9]</sup> Java webapp server
  - Expert with virtualization <sup>[12]</sup> and cloud <sup>[13]</sup> services
  - Professional BASH <sup>[14]</sup> programming skills
  - Professional TCP/IP <sup>[15]</sup> networking skills
  - Familiarity with a major vendors server hardware <sup>[16]</sup>
  - Familiarity with a major vendors networking hardware <sup>[17]</sup>
-

---

### Technologist Jobs

- <http://jobs.code4lib.org/jobs/dspace>
- <http://jobs.code4lib.org/jobs/gnulinix>
- <http://jobs.code4lib.org/jobs/java>

How to find persons with these skills

Try the following links to able to source persons with these skills from the community in your area.

- <http://www.linkedin.com>
- <http://loco.ubuntu.com>
- [http://en.wikipedia.org/wiki/Ask\\_Ubuntu](http://en.wikipedia.org/wiki/Ask_Ubuntu)
- [http://en.wikipedia.org/wiki/Linux\\_user\\_group](http://en.wikipedia.org/wiki/Linux_user_group)
- [http://en.wikipedia.org/wiki/Computer\\_User\\_Group](http://en.wikipedia.org/wiki/Computer_User_Group)

### Organisations

- <http://devcsi.ukoln.ac.uk/local-developer-impact>

### Remuneration

- [http://iainstitute.org/en/learn/research/salary\\_survey.php](http://iainstitute.org/en/learn/research/salary_survey.php)
- <http://www.roberthalftechnology.com>

### Certification

- <http://www.icdl.org.za>
- <http://www.lpi.org>
- <http://www.linuxcertification.co.za>

### References

- [http://en.wikipedia.org/wiki/Web\\_developer](http://en.wikipedia.org/wiki/Web_developer)
- [http://en.wikipedia.org/wiki/System\\_administrator](http://en.wikipedia.org/wiki/System_administrator)
- <http://en.wikipedia.org/wiki/DevOps>
- <http://langpop.com>

### Comment

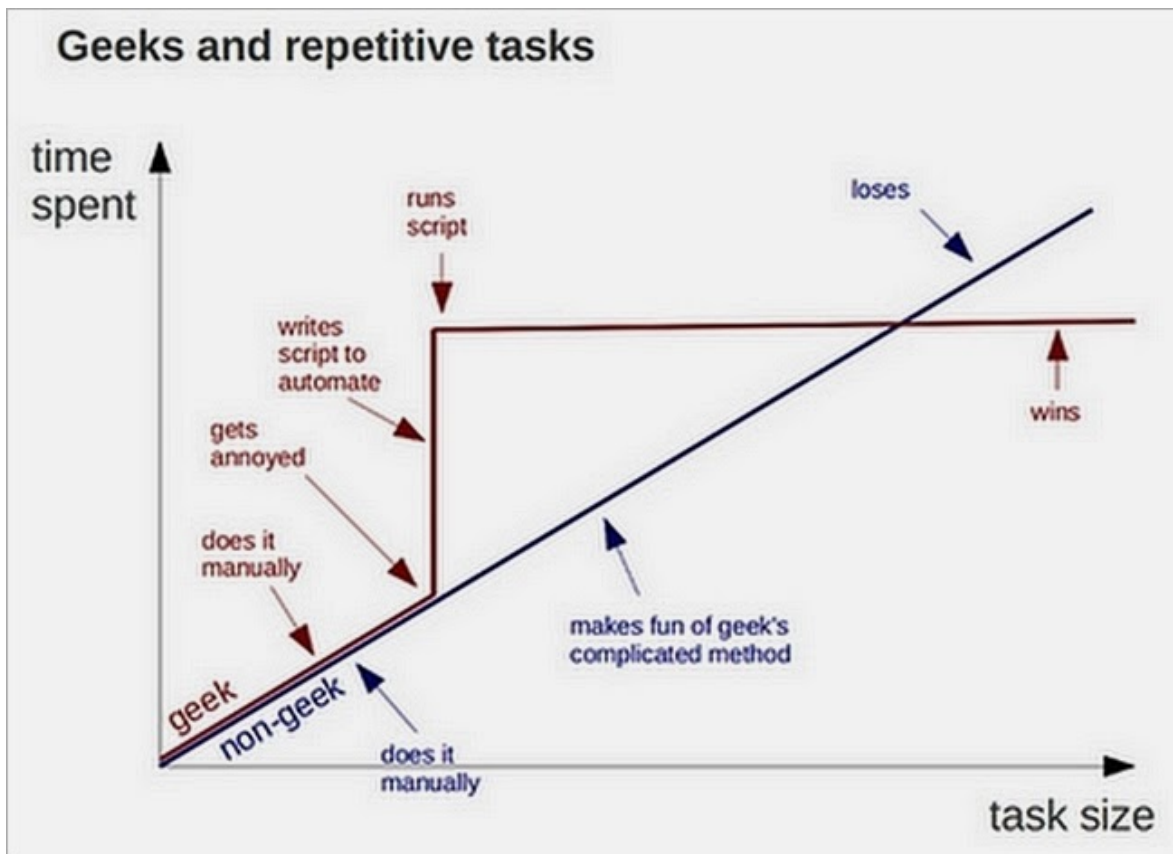
- <http://www.itworld.com/it-management/361516/9-reasons-sys-admins-hate-you>
- <http://www.informit.com/store/devops-troubleshooting-linux-server-best-practices-9780321832047>

### Sample CV's

- <http://staff.lib.sun.ac.za/~hgibson/docs/cv/cv.html>

### Automation

What a good geek does, is **AUTOMATE** and **DOCUMENT**.



**Back to Capacity Building**

## References

- [1] <https://www.google.co.za/search?q=Java+Webapp+Developer&oq=Java+Webapp+Developer&aqs=chrome..69i57&sourceid=chrome&ie=UTF-8>
- [2] [http://en.wikipedia.org/wiki/Java\\_%28programming\\_language%29](http://en.wikipedia.org/wiki/Java_%28programming_language%29)
- [3] <http://en.wikipedia.org/wiki/Xml>
- [4] <http://en.wikipedia.org/wiki/Sql>
- [5] <http://en.wikipedia.org/wiki/Html>
- [6] <http://en.wikipedia.org/wiki/Css>
- [7] <http://en.wikipedia.org/wiki/Php>
- [8] [http://en.wikipedia.org/wiki/LAMP\\_%28software\\_bundle%29](http://en.wikipedia.org/wiki/LAMP_%28software_bundle%29)
- [9] [http://en.wikipedia.org/wiki/Apache\\_Tomcat](http://en.wikipedia.org/wiki/Apache_Tomcat)
- [10] <https://www.google.co.za/search?q=Ubuntu+Linux+System+Administrator&oq=Ubuntu+Linux+System+Administrator&aqs=chrome..69i57j69i64&sourceid=chrome&ie=UTF-8>
- [11] <http://www.ubuntu.com>
- [12] <http://en.wikipedia.org/wiki/Virtualization>
- [13] [http://en.wikipedia.org/wiki/Cloud\\_computing](http://en.wikipedia.org/wiki/Cloud_computing)
- [14] [http://en.wikipedia.org/wiki/Bash\\_%28Unix\\_shell%29](http://en.wikipedia.org/wiki/Bash_%28Unix_shell%29)
- [15] <http://en.wikipedia.org/wiki/Tcp/ip>
- [16] [http://en.wikipedia.org/wiki/Server\\_\(computing\)](http://en.wikipedia.org/wiki/Server_(computing))
- [17] [http://en.wikipedia.org/wiki/Networking\\_hardware](http://en.wikipedia.org/wiki/Networking_hardware)

# SUNScholar/Capacity Building/Digital Repository Content Management

---

**\*\*\* After the system has been built \*\*\* you will require persons who have the following skills to manage the content of the digital repository.**

**\*\*\* You CANNOT do good content management without an experienced systems manager/team. \*\*\***

Essential Reading (Only available online)

- 2010 - NRF - SOUTH AFRICA - MANAGING DIGITAL COLLECTIONS
  - 2011 - IFLA - EDUCATION AND TRAINING FOR DIGITAL REPOSITORY MANAGERS
  - 2013 - ARL - NEW ROLES FOR NEW TIMES - TRANSFORMING LIAISON ROLES IN RESEARCH LIBRARIES
- 

## Example Job Advertisement

The (name of institution) is seeking candidates to fill the positions of director, manager and librarian for the open scholarship office.

The candidates should have at least 2 years experience and optionally supply certification and accreditation where available.

The minimum required skill sets are listed below.

### Directors

- Excellent written and verbal communication skills.
- Doctorate in library science.
- Academic journal publication and/or institutional policy development about "open access digital academic publishing".
- Expert understanding of open access digital repository content management.
- Expert with metadata standards for academic publishing.
- Professional understanding of web 2.0 communication technologies.
- Familiarity with DSpace software <sup>[1]</sup>.
- Familiarity with desktop computer operations.
- Familiarity with digital object formats and identifiers.
- Familiarity with digitisation technologies.
- Familiarity with open access digital repository systems management.
- Familiarity with the operations of the internet and how to use it securely. <sup>[2]</sup>

### Managers

- Excellent written and verbal communication skills.
  - Bachelors degree in library science.
  - Major or Masters in "open access digital academic publishing systems".
  - Expert understanding of open access digital repository content management.
  - Expert with metadata standards for academic publishing.
  - Professional understanding of web 2.0 communication technologies.
  - Professional understanding of DSpace software <sup>[1]</sup>.
  - Familiarity with open access digital repository systems management.
  - Familiarity with desktop computer operations.
  - Familiarity with digital object formats and identifiers.
  - Familiarity with digitisation technologies.
-

- Familiarity with the operations of the internet and how to use it securely. <sup>[2]</sup>

#### Librarians

- Professional written and verbal communication skills.
- Technology certificate in library science.
- Major in "open access digital academic publishing systems".
- Expert with DSpace software <sup>[1]</sup>.
- Expert with desktop computer operations.
- Expert with digital object formats and identifiers.
- Expert with digitisation technologies.
- Expert with metadata standards for academic publishing.
- Professional understanding of open access digital repository content management.
- Professional understanding of the operations of the internet and how to use it securely. <sup>[2]</sup>
- Professional understanding of web 2.0 communication technologies.
- Familiarity with open access digital repository systems management.

---

#### Library Schools

- <http://www.liasa.org.za/node/467>

#### Technophobia

Simple answers to technophobia <sup>[3]</sup>.

THE <b>SIMPLE ANSWERS</b> TO THE QUESTIONS THAT GET ASKED ABOUT EVERY NEW TECHNOLOGY:	
WILL <input type="checkbox"/> MAKE US ALL GENIUSES?	NO
WILL <input type="checkbox"/> MAKE US ALL MORONS?	NO
WILL <input type="checkbox"/> DESTROY WHOLE INDUSTRIES?	YES
WILL <input type="checkbox"/> MAKE US MORE EMPATHETIC?	NO
WILL <input type="checkbox"/> MAKE US LESS CARING?	NO
WILL TEENS USE <input type="checkbox"/> FOR SEX?	YES
WERE THEY GOING TO HAVE SEX ANYWAY?	YES
WILL <input type="checkbox"/> DESTROY MUSIC?	NO
WILL <input type="checkbox"/> DESTROY ART?	NO
BUT CAN'T WE GO BACK TO A TIME WHEN—	NO
WILL <input type="checkbox"/> BRING ABOUT WORLD PEACE?	NO
WILL <input type="checkbox"/> CAUSE WIDESPREAD ALIENATION BY CREATING A WORLD OF EMPTY EXPERIENCES?	WE WERE ALREADY ALIENATED

Back to Capacity Building

## References

- [1] <http://www.dspace.org>
  - [2] <http://en.wikipedia.org/wiki/Internet>
  - [3] <http://en.wikipedia.org/wiki/Technophobia>
-

# Article Sources and Contributors

**SUNScholar/Capacity Building** *Source:* <http://wiki.lib.sun.ac.za/index.php?oldid=22438> *Contributors:* Bibboek, Hgibson

**SUNScholar/Capacity Building/Digital Repository Systems Management** *Source:* <http://wiki.lib.sun.ac.za/index.php?oldid=22603> *Contributors:* Hgibson

**SUNScholar/Capacity Building/Digital Repository Content Management** *Source:* <http://wiki.lib.sun.ac.za/index.php?oldid=22604> *Contributors:* Hgibson

# Image Sources, Licenses and Contributors

**File:Rr-organogram.png** *Source:* <http://wiki.lib.sun.ac.za/index.php?title=File:Rr-organogram.png> *License:* unknown *Contributors:* Hgibson

**File:Geeks-and-repetitive-tasks.jpg** *Source:* <http://wiki.lib.sun.ac.za/index.php?title=File:Geeks-and-repetitive-tasks.jpg> *License:* unknown *Contributors:* Hgibson

**File:Simple-answers.png** *Source:* <http://wiki.lib.sun.ac.za/index.php?title=File:Simple-answers.png> *License:* unknown *Contributors:* Hgibson

# License

---

Attribution 3.0 Unported  
<http://creativecommons.org/licenses/by/3.0/>

---